CLASSIFICATION OF TWO-DIMENSIONAL REAL SUBALGEBRAS OF LIE ALGEBRA $M(2, \pounds)$

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We obtain basis families of two-dimensional complex matrices generating all twodimensional non-similar real sub-algebras of four-dimension complex Lie algebra $M(2, \mathbf{f})$. Description of all different Lie algebras is a useful tool of investigation of homogeneous manifolds. The present results will be used in description of affinehomogeneous real hyper-surfaces of the three-dimensional complex space.